

Fruitland Mg Fire Site

Residential Sampling Protocol and Decision Matrix for Cleaning and Verification

6/26/2016

The following protocol and decision matrix outlines the process for determination of which residences will undergo interior cleaning; and the data necessary to make determination on when residences can be re-occupied.

The interior of each home which has been evacuated by the County of LA, due to impacts from the Fruitland Magnesium Fire, will be sampled for metals present in indoor air using activity-based sampling. A minimum of 2 air samples will be collected inside each residential property; one at the breathing level of an adult, and the other at the breathing level of a child. (Indoor air sampling protocol is documented in the Fruitland Magnesium Fire Quality Assurance and Sampling Plan.) The analytical results of the indoor air sampling will be reviewed and compared to a screening level of one half of the action levels for indoor air which have been set for the Site by the Unified Command. This screening value is being utilized to account for potential pathways of exposure from risk of contaminants from the fire which have not been sampled for or quantified. Based on this screening-value assessment, residences with indoor air exceeding these concentrations will be subject to indoor cleaning.

Residences which do not exceed the screening level concentrations will be subject to a secondary sampling using a micro vacuum for the collection and analysis of dust and/or ash which may be present in the residence. The analytical results of the secondary sampling will be compared with the confirmation vacuum-sample action levels. Residences with results that exceed the confirmation vacuum sample action levels will be subject to indoor cleaning. Residences with results which do not exceed the vacuum sample action levels will be turned over from Unified Command to LA County Department of Public Health to determine re-occupancy.

After indoor cleaning of the residences, a verification process which includes both indoor activity-based air sampling and micro vacuum-secondary sampling will be conducted. If either the air or micro vacuum sample results exceed the respective action levels, then the residence will be subject to additional cleaning, and then resampling, until results from verification sampling do not exceed action levels. If additional speciation of sampling is needed to clarify contaminants or concentrations, it will be conducted. Once the verification sampling (both indoor air and micro vacuum) within a residence does not exceed action levels, the residence will be turned over from Unified Command to LA County Department of Public Health to determine re-occupancy.